Recombinant Human Peroxiredoxin 5/PRDX5 Protein (His Tag)

Catalog No. PKSH032885

Note: Centrifuge before opening to ensure complete recovery of vial contents.

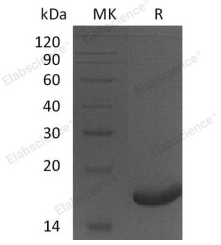
Description

Synonyms	Peroxiredoxin-5;PRDX5;Alu corepressor 1;Antioxidant enzyme B166;AOEB166;Liver tissue 2D-page spot 71B;PLP;Peroxiredoxin V;Prx-V;Peroxisomal antioxidant enzyme;TPx type VI;Thioredoxin peroxidase PMP20;Thioredoxin reductase
Species	Human
Expression Host	HEK293 Cells
Sequence	Met53-Leu214
Accession	P30044
Calculated Molecular Weight	17.9 kDa
Observed molecular weight	17 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Peroxisomes are essential organelles that participate in multiple important metabolic processes, including the β-oxidation of fatty acids, plasmalogen synthesis, and the metabolism of reactive oxygen species (ROS). Peroxiredoxins is overexpressed in breast cancer tissues to a great extent suggesting that they has a proliferative effect and may be related to cancer development or progression. Peroxiredoxin 5 (PRDX5) is a thioredoxin peroxidase that belongs to the atypical 2-Cys class of the TSA/ahpC family of peroxiredoxins. PRDX5 is a widely expressed mitochondrial antioxidant enzyme that reduces hydrogen peroxide, alkyl hydroperoxides, and peroxynitrite. In human cells, this enzyme is present in the cytosol, mitochondria, peroxisomes, and nucleus.

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